



May 7, 2013
Queen Creek, AZ

SAN TAN WEST Area Drainage Master Study Public Meeting

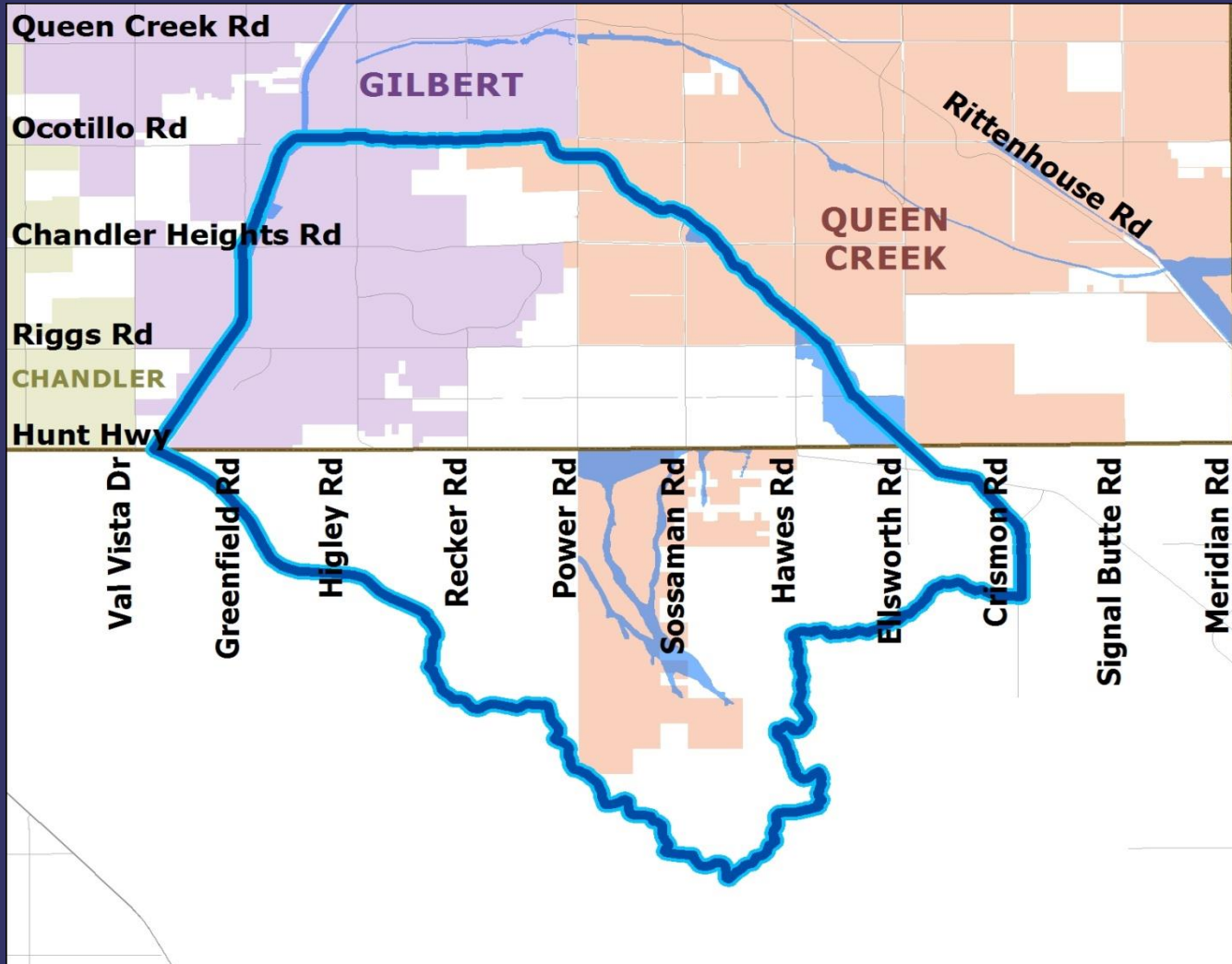
Burke Lokey, P.E., CFM
Project Manager

Agenda

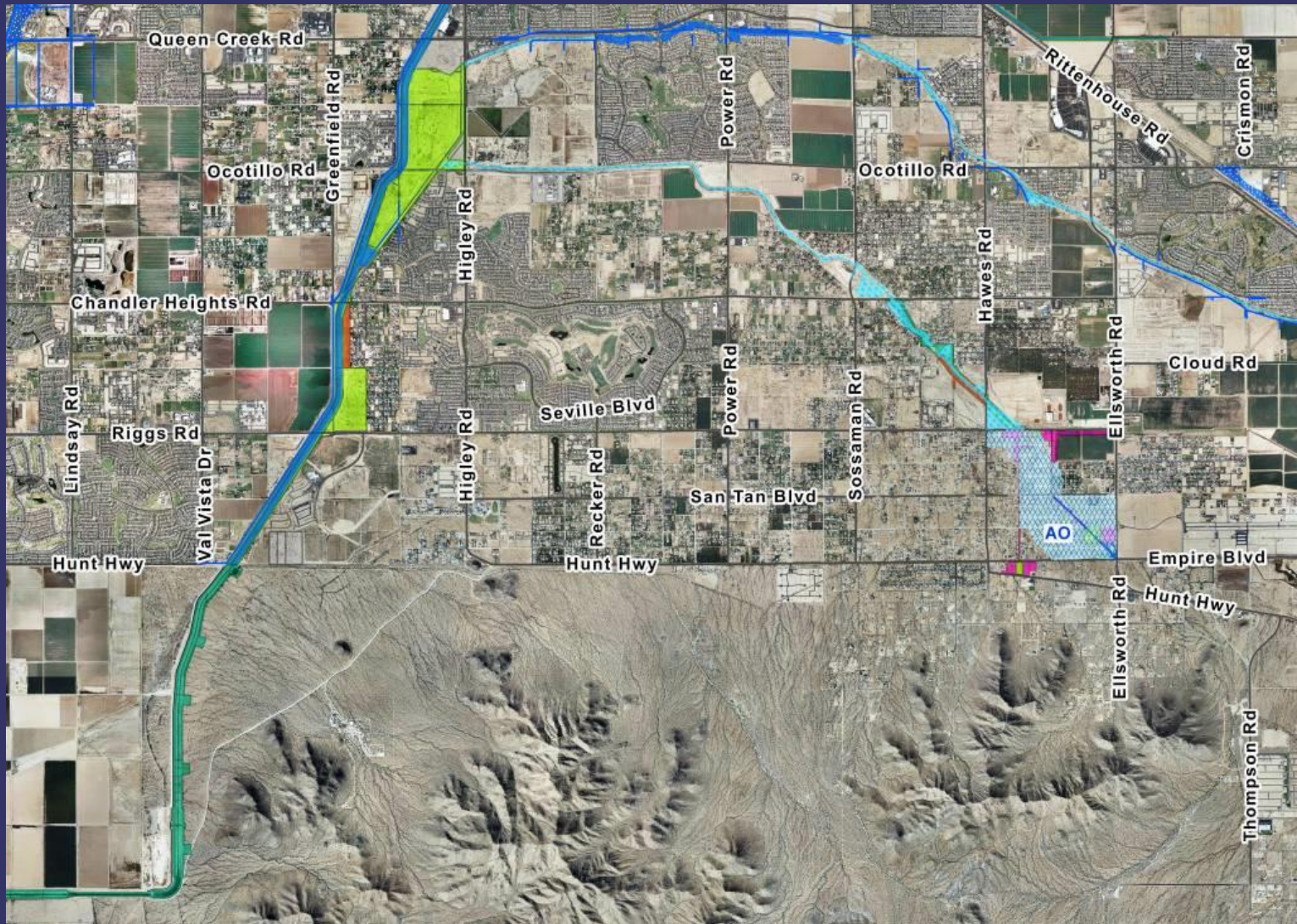
- Introduction
 - Background and context
 - Study goals
- Regional Hydrology Model
 - Model capabilities
 - Preliminary results
- Next steps
- Report A Flood



San Tan West Study Boundary



San Tan West Study Area



Context

- Watershed is 34 sq. mi.
- Updated mapping (October 2011)
- Existing problems – July 2012 flooding
- Needed new maps of ponding areas adjacent to EMF
- Partners include Gilbert, Queen Creek, Pinal County, and the Gila River Indian Community



Study Goals

- Develop a Regional Model (FLO-2D) and a comprehensive Flood Hazard Assessment
- Identify and rate drainage & flooding problems (successful CIP projects)
- New floodplain maps for the EMF ponding area
- Complete study by Nov 2013



Recent Flooding – July 14, 2012



Sossaman and Riggs Rd
0.75 inch of rain





Recent Flooding – July 29, 2012



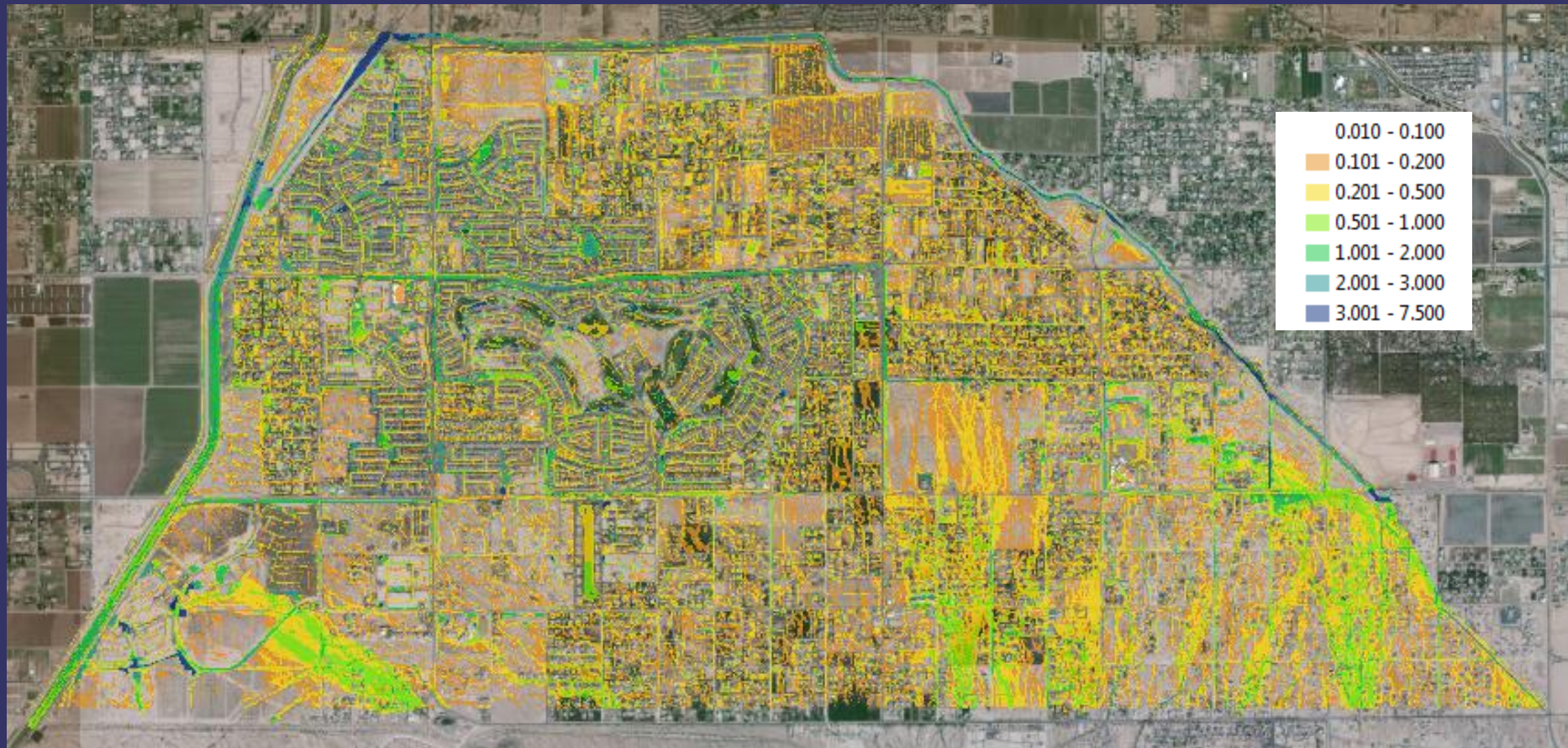
Riggs Rd. and 196th St.
0.47 inch of rain







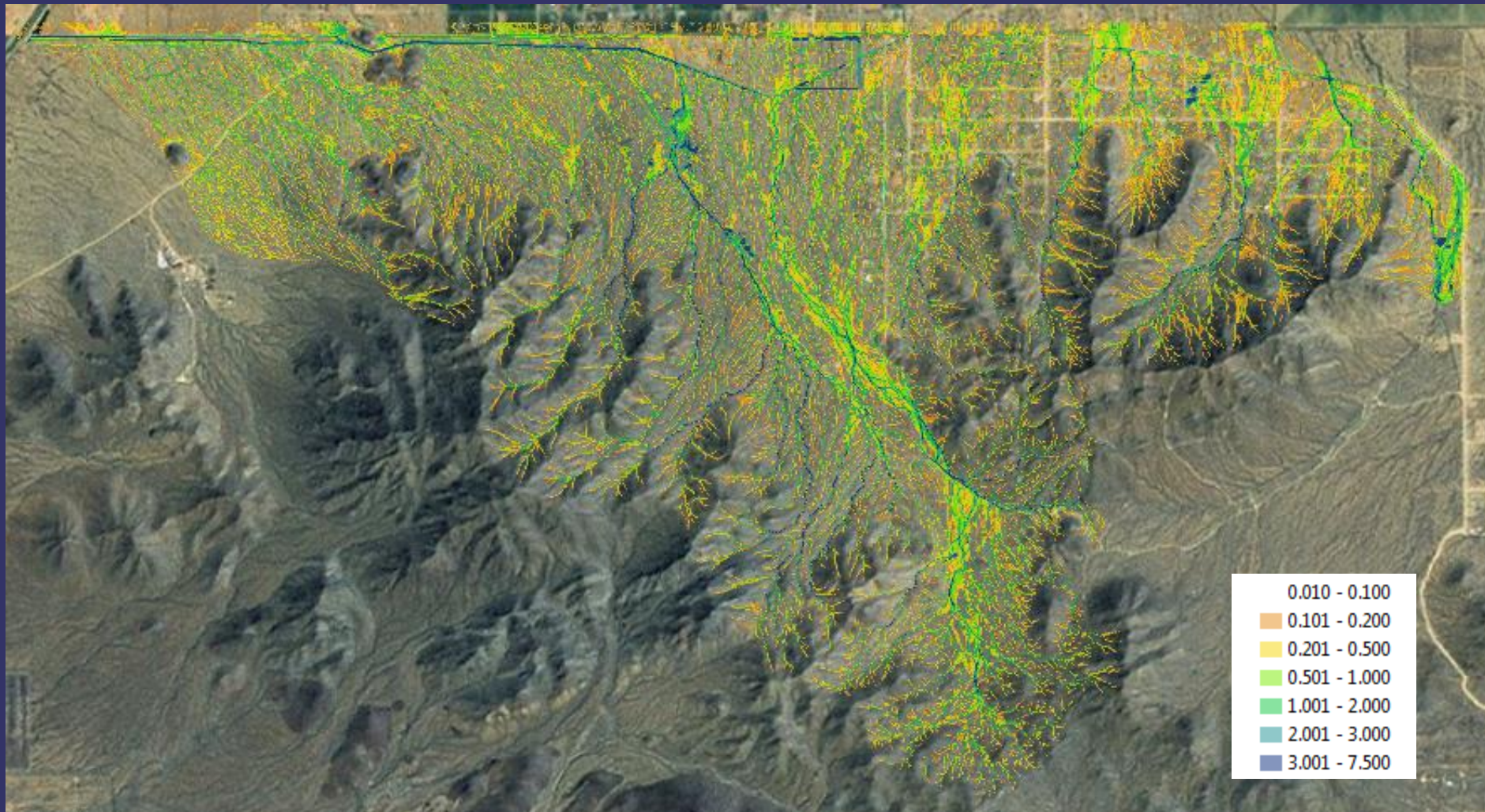
Preliminary Results



100-Year Depth [ft]



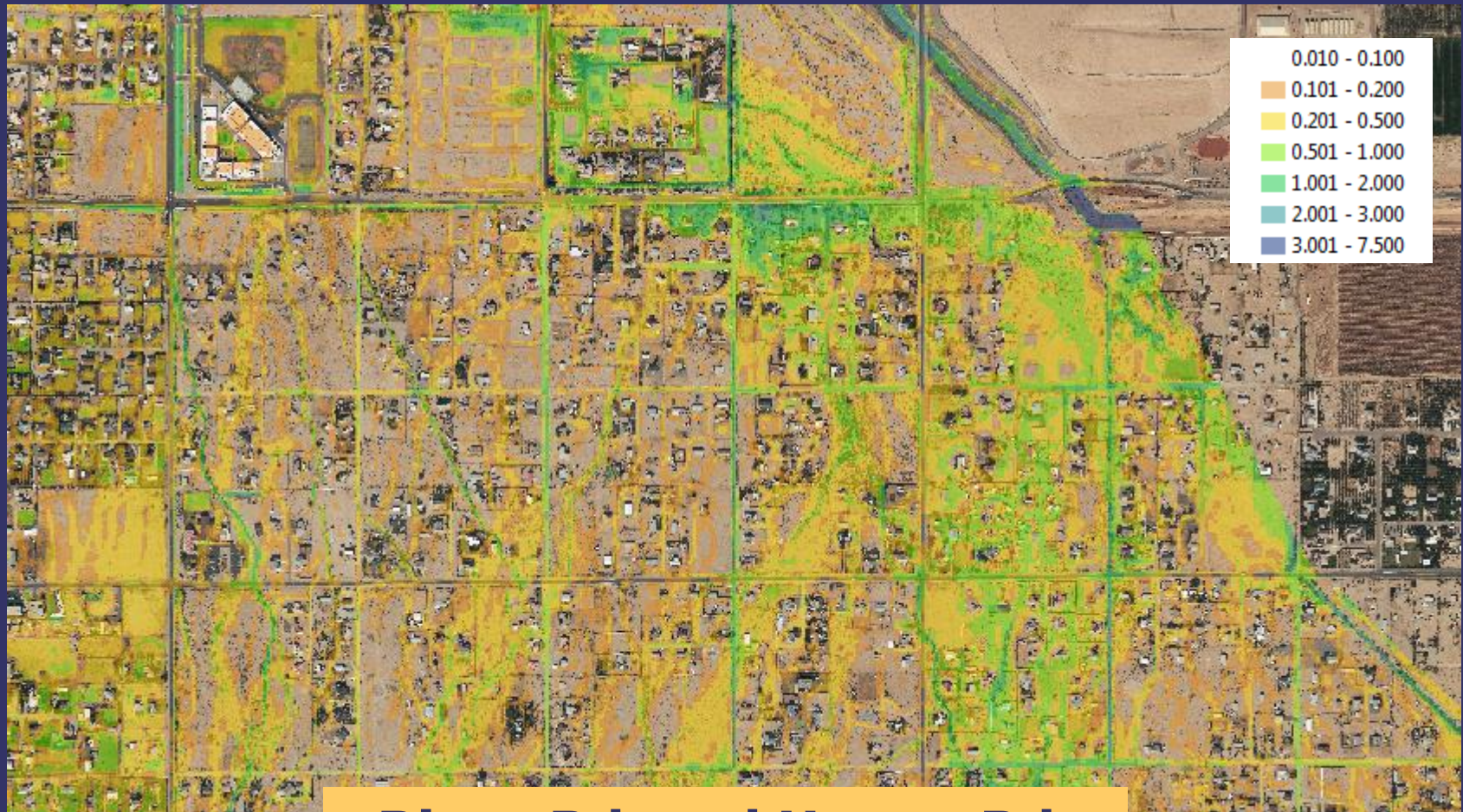
Preliminary Results



100-Year Depth [ft]



Preliminary Results



Riggs Rd. and Hawes Rd.
100-year Depth [ft]



Preliminary Results



Happy Rd. and 201st St.
100-year Depth [ft]



Preliminary Results



Riggs Rd. from Hawes Rd. to 198th St.
100-year Depth [ft]



Preliminary Results



Riggs Rd. and 196th St.
100-year Depth [ft]



Preliminary Results



Higley Rd. and Hunt Hwy.
100-year Depth [ft]



Preliminary Results



Bell Rd. and Hunt Hwy.
100-year Depth [ft]



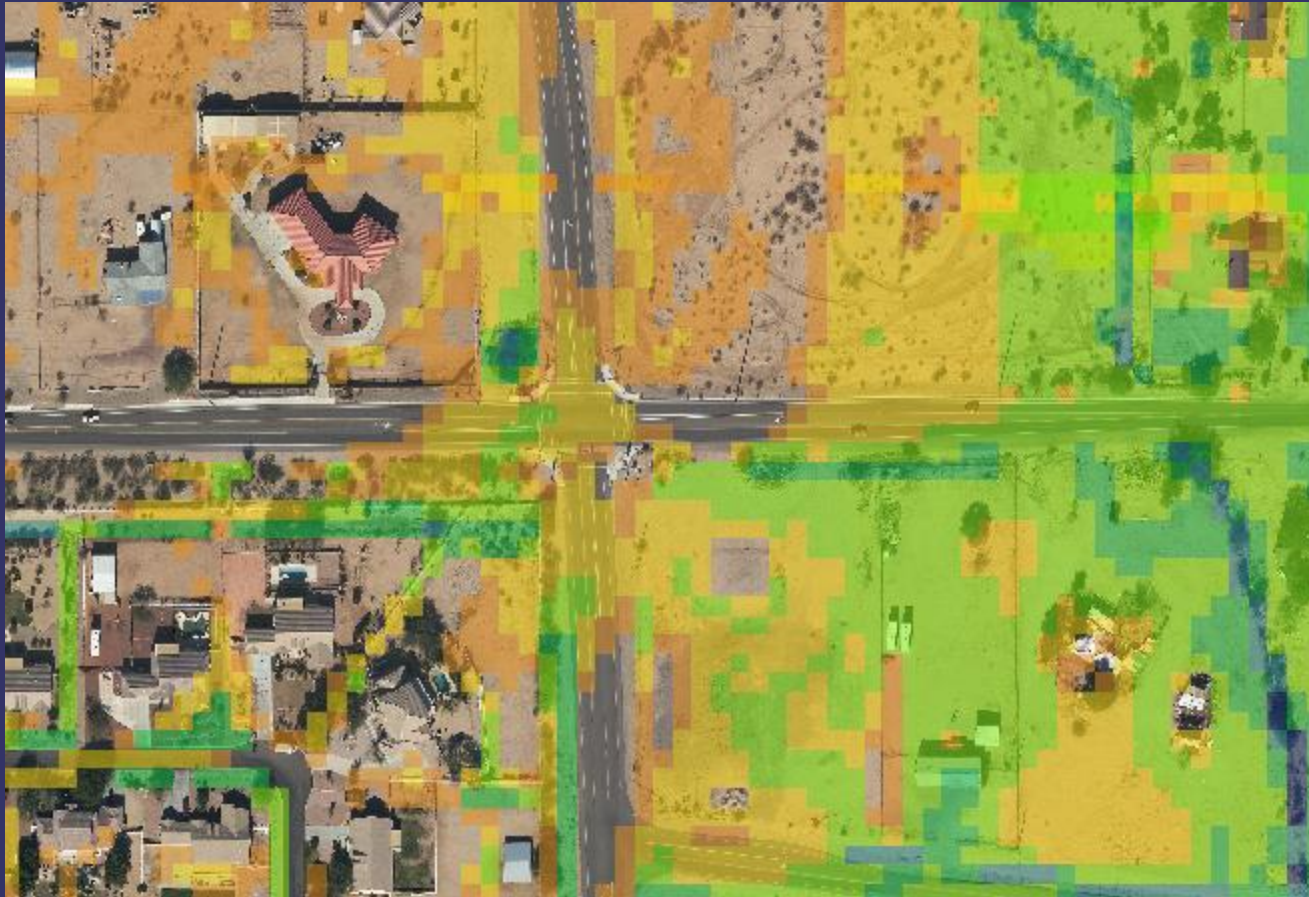
Preliminary Results



Santo Vallarta
100-year Depth [ft]



Preliminary Results



Hawes Rd. and Hunt Hwy.
100-year Depth [ft]



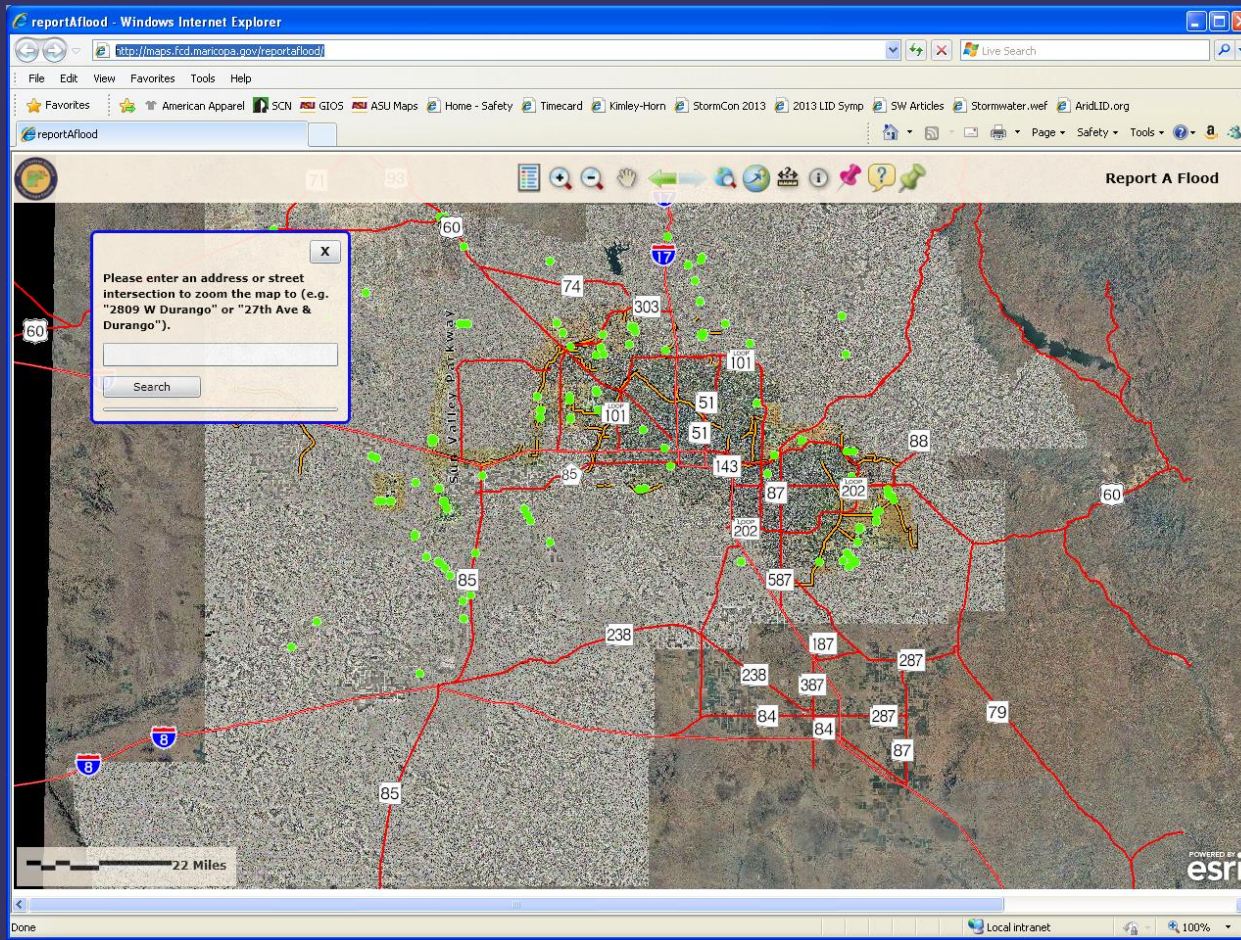
Next Steps

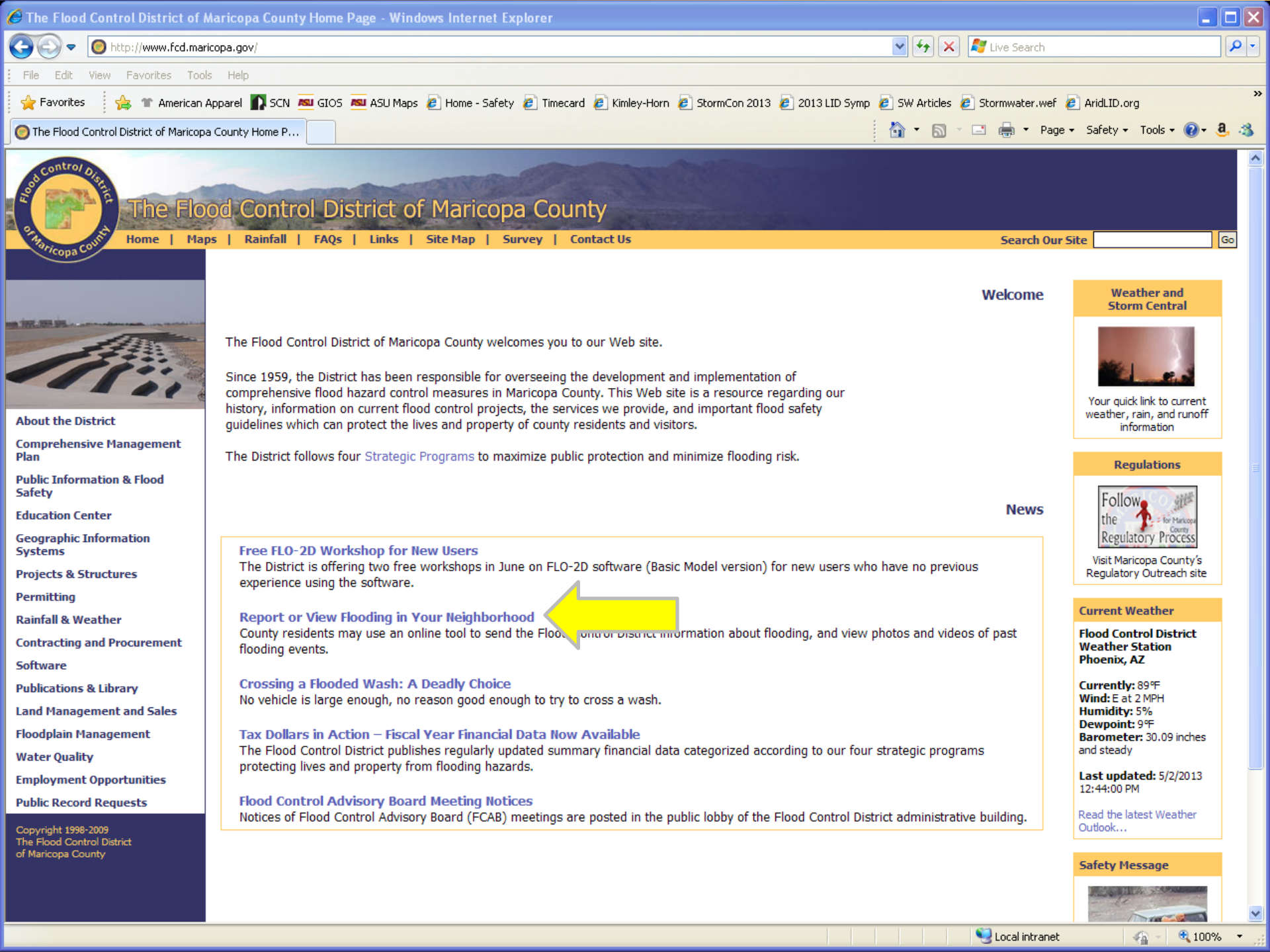
- Complete flood models – August 2013
- Complete flood hazard assessment
- Identify opportunities for CIP projects
- Prepare EMF floodplain maps for FEMA review



Report A Flood

<http://maps.fcd.maricopa.gov/reportaflood/>





About the District

- Comprehensive Management Plan
- Public Information & Flood Safety
- Education Center
- Geographic Information Systems
- Projects & Structures
- Permitting
- Rainfall & Weather
- Contracting and Procurement Software
- Publications & Library
- Land Management and Sales
- Floodplain Management
- Water Quality
- Employment Opportunities
- Public Record Requests

Copyright 1998-2009
The Flood Control District
of Maricopa County

Welcome

The Flood Control District of Maricopa County welcomes you to our Web site.

Since 1959, the District has been responsible for overseeing the development and implementation of comprehensive flood hazard control measures in Maricopa County. This Web site is a resource regarding our history, information on current flood control projects, the services we provide, and important flood safety guidelines which can protect the lives and property of county residents and visitors.

The District follows four [Strategic Programs](#) to maximize public protection and minimize flooding risk.

News

Free FLO-2D Workshop for New Users
The District is offering two free workshops in June on FLO-2D software (Basic Model version) for new users who have no previous experience using the software.

Report or View Flooding in Your Neighborhood
County residents may use an online tool to send the Flood Control District information about flooding, and view photos and videos of past flooding events.

Crossing a Flooded Wash: A Deadly Choice
No vehicle is large enough, no reason good enough to try to cross a wash.

Tax Dollars in Action – Fiscal Year Financial Data Now Available
The Flood Control District publishes regularly updated summary financial data categorized according to our four strategic programs protecting lives and property from flooding hazards.

Flood Control Advisory Board Meeting Notices
Notices of Flood Control Advisory Board (FCAB) meetings are posted in the public lobby of the Flood Control District administrative building.

Weather and Storm Central

Your quick link to current weather, rain, and runoff information

Regulations

Follow the Regulatory Process
Visit Maricopa County's Regulatory Outreach site

Current Weather

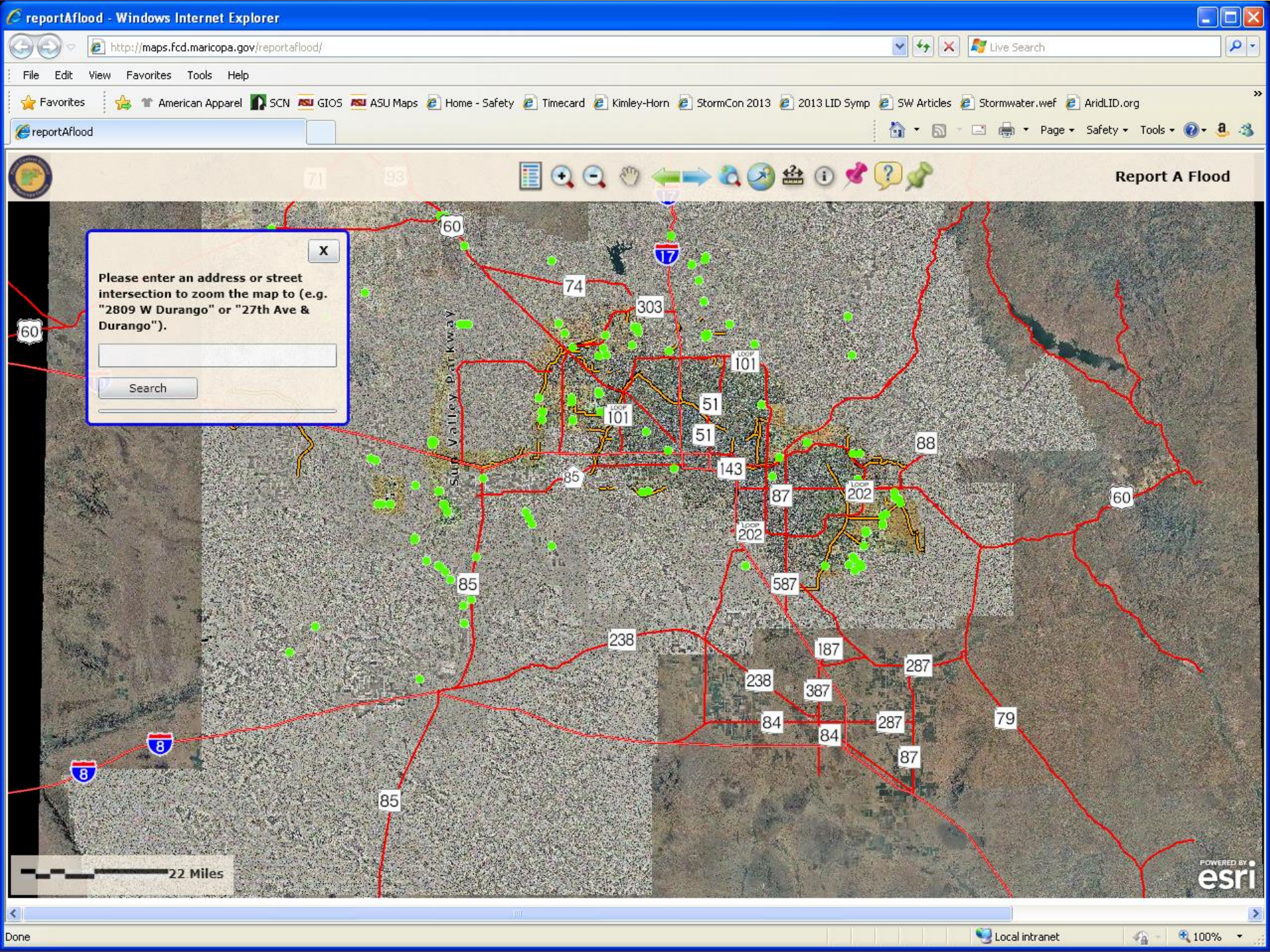
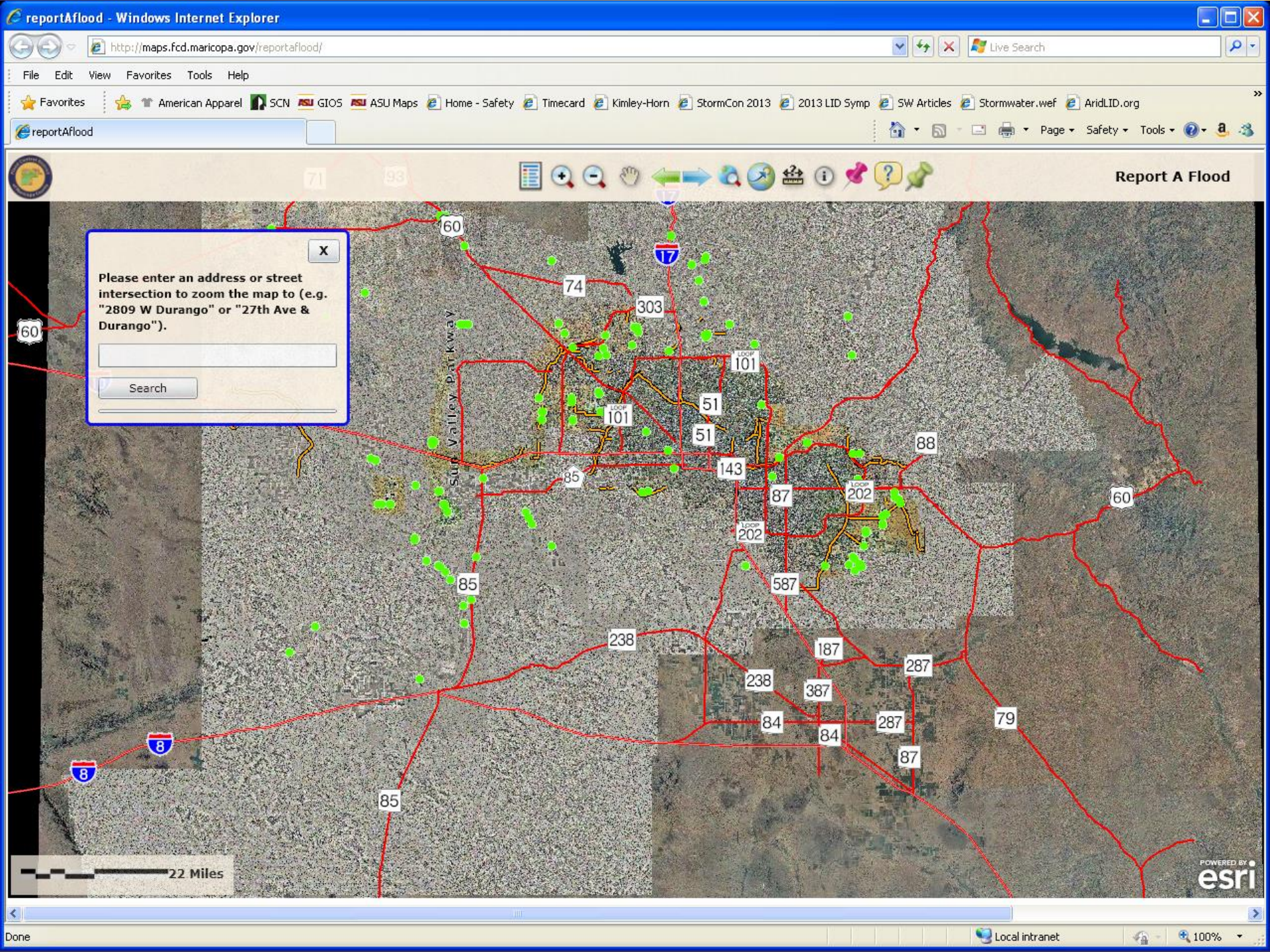
Flood Control District Weather Station Phoenix, AZ

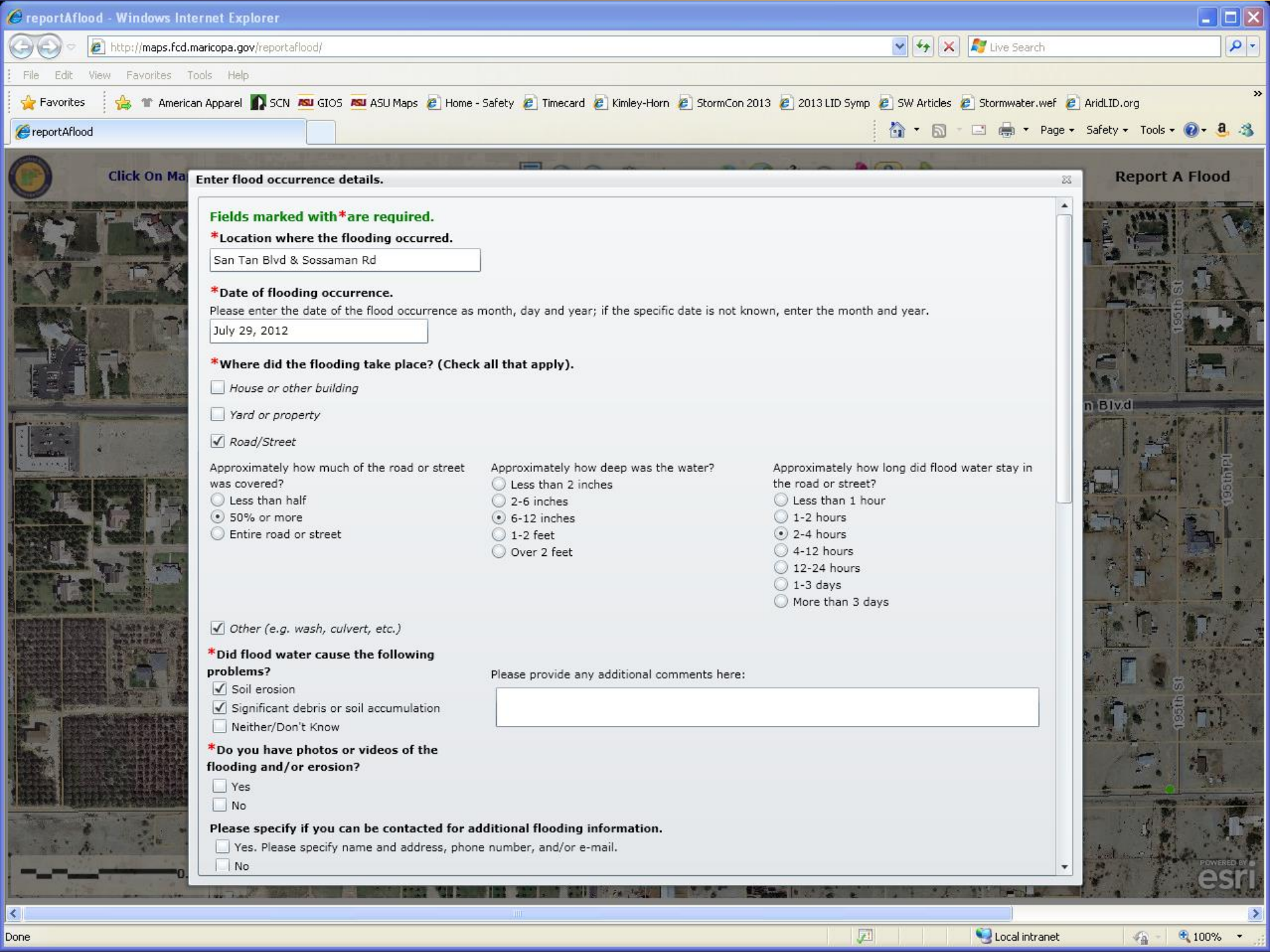
Currently: 89°F
Wind: E at 2 MPH
Humidity: 5%
Dewpoint: 9°F
Barometer: 30.09 inches and steady

Last updated: 5/2/2013 12:44:00 PM

[Read the latest Weather Outlook...](#)

Safety Message





reportAflood - Windows Internet Explorer

http://maps.fcd.maricopa.gov/reportaflood/

File Edit View Favorites Tools Help

Favorites

American Apparel

SCN

GIOS

ASU Maps

Home - Safety

Timecard

Kimley-Horn

StormCon 2013

2013 LID Symp

SW Articles

Stormwater.wef

AridLID.org

reportAflood

Page Safety Tools

Click On Map

Enter flood occurrence details.

Fields marked with * are required.

* Location where the flooding occurred.

San Tan Blvd & Sossaman Rd

* Date of flooding occurrence.

Please enter the date of the flood occurrence as month, day and year; if the specific date is not known, enter the month and year.

July 29, 2012

* Where did the flooding take place? (Check all that apply).

☐ House or other building

☐ Yard or property

☒ Road/Street

Approximately how much of the road or street was covered?

☐ Less than half

☒ 50% or more

☐ Entire road or street

Approximately how deep was the water?

☐ Less than 2 inches

☐ 2-6 inches

☒ 6-12 inches

☐ 1-2 feet

☐ Over 2 feet

Approximately how long did flood water stay in the road or street?

☐ Less than 1 hour

☐ 1-2 hours

☒ 2-4 hours

☐ 4-12 hours

☐ 12-24 hours

☐ 1-3 days

☐ More than 3 days

☒ Other (e.g. wash, culvert, etc.)

* Did flood water cause the following problems?

☒ Soil erosion

☒ Significant debris or soil accumulation

☐ Neither/Don't Know

* Do you have photos or videos of the flooding and/or erosion?

☐ Yes

☐ No

Please specify if you can be contacted for additional flooding information.

☐ Yes. Please specify name and address, phone number, and/or e-mail.

☐ No

Please provide any additional comments here:

Report A Flood

190th St

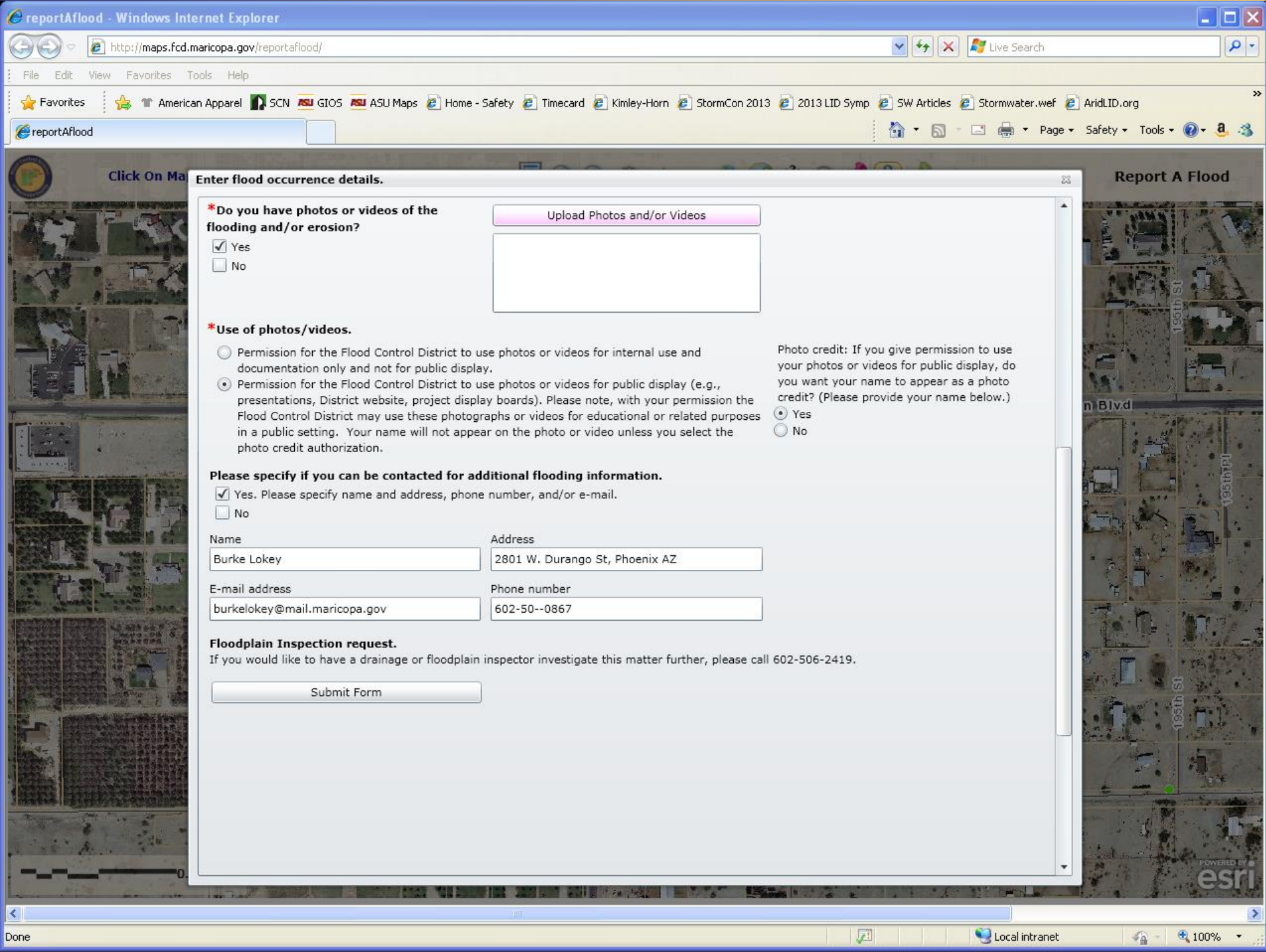
190th Pl

190th St

190th Pl

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Done Local intranet 100%





Questions?

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Project Manager